We claim:

1. A method of providing assertions comprising the steps of:

selling a pool of unallocated time;

upon request, generating an assertion having a lifetime and subtracting the lifetime from the unallocated time; and

upon request, revoking an assertion and adding any remaining lifetime of the assertion to the unallocated time.

- 10 2. The method of claim 1 comprising the further step of eroding unallocated time over time.
 - 3. A system for managing assertions between names and public keys, the system comprising:
- a repository containing an unallocated time, the
 unallocated time indicating an amount of time available for
 assertions;
 - a purchase component adapted to add a requested bulk lifetime to the unallocated time;
- a request component adapted to, upon generation of an 20 assertion having a requested lifetime, deduct the requested lifetime from the unallocated time; and
 - a revocation component adapted to, upon revocation of an assertion having a remaining lifetime, add the remaining lifetime to the unallocated time.
- 25 4. The system of claim 3 wherein each assertion is a public key certificate.

5. The system of claim 3 further adapted to:

monitor when the unallocated time falls below a threshold, and

notify a user associated with the unallocated time if the unallocated time falls below the threshold.

- 6. The system of claim 3 wherein the request component determines whether the requested lifetime is greater than the unallocated time, and if the requested lifetime is greater than the unallocated time, presents the user with a set of options for remedying the insufficiency of the unallocated time.
 - 7. A processing platform implemented method of processing a request for an assertion between a name and a public key, the method comprising the steps of:

maintaining an unallocated time, the unallocated time
15 being time available for assertions;

accepting a request for an assertion and a requested lifetime;

determining whether the unallocated time is greater than or equal to the requested lifetime; and

- upon determining that the unallocated time is greater than or equal to the requested lifetime, deducting the requested lifetime from the unallocated time.
- 8. The method of claim 7 comprising the further step of forwarding the request for an assertion to an entity25 responsible for generating assertions.
 - 9. The method of claim 7 wherein the assertion is a public key certificate.

- 10. The method of claim 7 comprising the further step of eroding the unallocated time over time.
- 11. A processing platform implemented method of processing a request for revocation of an assertion between a5 name and a public key, the method comprising the steps of:

maintaining an unallocated time, the unallocated time being time available for assertions;

identifying an assertion to be revoked, the assertion having a remaining lifetime; and

- adding the remaining lifetime to the unallocated time.
 - 12. The method of claim 11 wherein the assertion is a public key certificate.
- 13. A memory for storing data for access by an
 15 application program being executed on a data processing system, comprising:

a data structure stored in the memory, the data structure including information resident in a database used by the application program and including at least one entry, each 20 entry including:

an account identification field which identifies an account;

- a user identification field which provides access control to the account; and
- an unallocated time field which identifies an amount of time available to the account for allocation to assertions between names and public keys.

14. An article of manufacture comprising a computerreadable storage medium, the computer-readable storage medium containing instructions for:

generating an entry in a repository, the entry in a repository, the entry including an unallocated time;

receiving a request for a purchase of bulk lifetime;

adding the bulk lifetime to the unallocated time, in the event that a request for a purchase of bulk lifetime is received;

receiving a request for an assertion and a requested lifetime, the assertion being between a name and a public key;

deducting the requested lifetime from the unallocated time, in the event that a request for an assertion is received;

receiving an identification of an assertion to be 15 revoked, the assertion having a remaining lifetime; and

adding the remaining lifetime to the unallocated time, in the event that an identification of an assertion to be revoked is received.

- 15. A system for allocating assertions comprising:
- 20 means for allocating a pool of unallocated time available for assertion validity;

means for processing a request for an assertion having a lifetime, the means for processing the request subtracting the lifetime from the unallocated time; and

25 means for processing a revocation of an existing assertion by determining any remaining lifetime of the existing

assertion and adding at least a portion of the remaining lifetime of the assertion to the unallocated time.

16. The system of claim 15 further comprising:

means for monitor when the unallocated time falls

below a threshold, and for notifying a user associated with the
unallocated time if the unallocated time falls below the
threshold.